

KHOKHRUNOV, K.V., inzh.

Automatic line for the production of electric motor frames. Vest.  
elektroprom. 31 no.3:30-34 M<sub>r</sub> '60. (MIRA 13:6)  
(Electric motors--Design and construction)

POLETAYEV, A.S., zasluzhenny vrach ESFSR, glavny vrach; KHOKHRUNOVA, M.N.

Experiment of releasing patients with scarlet fever on the 21st day after the onset of the disease. Vop.pediat. 21 no.3:10-12 My-Je '53.

(MLRA 6:7)

1. Detskaya infektsionnaya bol'nitsa g. Yaroslavl'ya.

(Scarlet fever)

GOPUS, A.Ye.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

Testing automobile radiators made of arsenic brass. Trudy  
Giprotsvetmetobrabotka no.20:280-286 '61. (MIRA 15:2)  
(Automobile--Radiators) (Brass--Testing)

KHOKHRYAKOV, A.

Information on the Izhevsk Seminary. Dif. urav. 1 no. 12:1686-1687  
D '65. (MIRA 18:12)

GOPIUS, A.Ye., kand.tekhn.nauk; MINKIN, M.L., kand.tekhn.nauk; NAUMOVA,  
M.M.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

Investigating materials for radiator pipes of automobile engines.  
Avt.prom. 28 no.5:15-17 My '62. (MIRA 15:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut  
obrabotki tsvetnykh metallov, Gosudarstvennyy soyuznyy ordena  
Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy  
i avtomotornyy institut i Gor'kovskiy avtozavod.  
(Automobiles—Radiators) (Brass--Testing)

**KHOKHRYAKOV, A.P.**

New localities of relict calcareous flora in the Northern Urals.  
Bot.shur. 44 no.12:1727-1730 D '59. (MIRA 13:4)

1. Vsesoyuznyy institut lekarstvennykh i aromaticeskikh rasteniy  
Moskovskaya oblast'.  
(Deneshkin Kamen' region--Botany)

KHOKHRYAKOV, A.P.

Some characteristics of morphogenesis in Pyrolaceae of Central  
Russia. Bot.zhur. 46 no.3:361-364 Mr '61 (MIRA 14:3)

1. Glavnyy botanicheskiy sad AN SSSR, Moskova.  
(Moscow Province—Wintergreen)  
(Botany—Morphology)

KHOKHRYAKOV, A. P.

Materials on studying the genus *Eremurus*. Biol. Glav. bot.  
sada no. 47:26-32 '62. (MIRA 16:1)

1. Glavnyy botanicheskiy sad AN SSSR.

(Soviet Central Asia—Desert candle)



KHOKHRYAKOV, A.P.

Pine and smoke tree in the Svyatyye Gory near Slavyansk. Bot.  
zhur. 47 no.5:715-720 My '62. (MIRA 16:5)

1. Glavnyy botanicheskiy sad, Moskva.  
(Slavyansk region—~~Pine~~) (Slavyansk region—~~Smoke tree~~)

KHOKHRYAKOV, A.P.

Biological and morphological characteristics of the genus  
Eremurus as related to its origin and evolution. Bot. zhur.  
48 no.9:1310-1320 S '63. (MIRA 16:11)

1. Glavnyy botanicheskiy sad, Moskva.

KHOKHRYAKOV, A.P.

Comparative biology of eremuri and other ephemeroide. Biul. Glav. bot.  
sada no.50:69-78 63. (MIRA 17:1)

1. Glavnyy botanicheskiy sad AN SSSR.

KHOKHRYAKOV, A.P.:

Morphology of the shoot of *Carex gracilis* Curt and some other  
sedges of the section *Acutae* Fries. Biol. <sup>MOIP</sup>OIP. Otd. Biol. 68  
no.1:103-109 Ja-F '63. (MIRA 17:4)

KHOKHRYAKOV, A.P.

A new snowdrop from the Caucasus. Biul. MOIP. Otd. biol. 68  
no.4:140-141 J1-Ag '63. (MIRA 16:10)

KHOKHRYAKOV, A.P.

New species of *Corydalis* from Mount Achishkho, Biol. Glav. bot.  
sada no.56:42-44. '64. (MIRA 18:5)

1. Glavnyy botanicheskiy sad AN SSSR.

KHOKHRYAKOV, A.P.

Archeophytes and the nemoral complex in the flora of the  
taiga. Bot.zhur. 50 no.2:240-244 F '65.

(MIRA 18:12)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva. Submitted  
March 2, 1964.

KHOKHRYAKOV, A.P.

Origin of monocotyledons according to the data on the structure of the conductive system of the leaf. Trudy MOIP Otd. biol. 13:190-200 '65 (MIRA 19:1)



KHOKHRYAKOV, Andrey Pavlovich; KUL'TIASOV, M.V., otv. red.;  
PASHKOVSKIY, Yu.A., red.

[Eremurus and its cultivation] Eremurusy i ikh kul'tura.  
Moskva, Nauka, 1965. 126 p. (MIRA 18:9)

KARASEVA, A.N.; ALEXANDER, D.S.; KHOKHRYAKOV, A.S.

Investigation of epidemiology of diphyllbothriasis in  
Astrakhan Province. Med.paraz. i paraz. bol.24 no.3:253-  
255 J1-S '55. (MLBA 812)

1. Iz Astrakhanskoy oblastnoy protivomalyariynoy stantsii  
(glavnyy vrach. P.S.Yagorova)  
(TAPEWORM INFECTIONS, epidemiology,  
diphyllbothriasis in Russia)

KHOKHRY AKOU, A.Y.

16(1) **PLANE I BOOK EXHIBITION** 504/2660

**Veosoyuzny matematicheskiy s'yezd.** 3rd, Moscow, 1956  
Tredy. t. 4; Kratkiye soobsheniya sektsionnykh dokladov. Doklady  
seksionnykh ucheynykh (Transactions of the 3rd All-Union Mathemat-  
ical Conference in Moscow. vol. 4; Summary of Sectional Reports.  
Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.  
287 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskii Institut.  
Tech. Ed.: G.M. Shvachko; Editorial Board: A.A. Abramov, V.G.  
Molitskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M.  
Kikot'skiy (resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, E.A.  
Rybnikov, P. L. Ul'yanov, V.A. Uspenskiy, M.G. Chistyov, G. Ye.  
Smilov, and A.I. Shirshov.

**PURPOSE:** This book is intended for mathematicians and physicists.

**COVERAGE:** The book is Volume IV of the Transactions of the Third All-  
Union Mathematical Conference, held in June and July 1956. The  
book is divided into two main parts. The first part contains sum-  
maries of the papers presented by Soviet scientists at the con-  
ference that were published in the journal *Uspehi matematicheskikh  
nauk*. The second part contains the text of reports submitted to the editor  
by non-Soviet scientists. In those cases when the non-Soviet sci-  
entist did not submit a copy of his paper to the editor, the title  
of the paper is cited and, if the paper was printed in a previous  
volume, reference is made to the appropriate volume. The papers,  
both Soviet and non-Soviet, cover various topics in number theory,  
algebra, differential and integral equations, function theory,  
functional analysis, probability theory, topology, mathematical  
problems of mechanics and physics, computational mathematics,  
mathematical logic and the foundations of mathematics, and the  
history of mathematics.

- Lobachev, A.Y. (Krasnodar). On the generalization of the  
theory of linear integral equations of N.M. Bazarov 33
- Mykhal'tsin, I.B. (Leningrad). Certain formulas of the Fred-  
holm method and their application to the problem on the evalua-  
tion of error of approximate methods of solution of integral  
equations 34
- Rybnikov, A.D. (Minsk), Ye. G. Gubarev (Moscow), and A. Ya.  
Krasnosel'skiy (Moscow). Two modifications of the concept of  
a quadratic system on the plane 35
- Smulich, O.I. (Odessa). Asymptotic expansions of the solution  
of partial differential equations in powers of a small para-  
meter at highest derivative 36
- Smulov, M.L. (L'viv). Subtraction method for the solution  
of boundary value and mixed problems 36
- Smulitskiy, Ya. B. (Zhdanov). On integral equations with ex-  
ponential nonlinearities 37

Card 8/24

AUTHOR: Myshkis, A.D. and Khokhryakov, A.Ya. SOV/39-45-3-6/7  
(Khar'kov, Izhevsk)

TITLE: Breaking Dynamical Systems. I. Singular Points in the Plane  
(Bushuyushchiye dinamicheskiye sistemy. I. Osobyie tochki na ploskosti)

PERIODICAL: Matematicheskiy sbornik, 1958, Vol 45, Nr 3, pp 401-414 (USSR)

ABSTRACT: The notion of the "systèmes déferlants" of Vogel [Ref 2-7] is is defined in metric spaces in extraordinary generality. Then the authors restrict themselves, however, to the consideration of  $n$  differential equations in the plane with  $m$  critical curves, on which the solution of the  $i$ -th equation is replaced by the solution of the  $j$ -th equation. The correspondence  $j = j(i)$  is given. The cases  $n = 2, m = 1$ ;  $n = 2, m = 2$  are considered more detailed. Stability- and instability conditions are set up. As usual in the control theory a multisheet phase plane is introduced in which the partial solutions are combined. A continuation of the paper is said to be dedicated to boundary cycles.  
There are 9 references, 3 of which are Soviet, and 6 French.

Card 1/2

Breaking Dynamical Systems. I. Singular Points in the Plane SOV/39-45-3-6/7

SUBMITTED: February 11, 1957

1. Mathematics--Control systems
2. Topology--Applications

Card 2/2

67062

16(1) 16.3400

SOV/44-59-9-9072

Translation from: Referativnyy zhurnal. Matematika, 1959, Nf 9, p 83 (USSR)

AUTHOR: Khokhryakov, A. Ya.

TITLE: On the Question of the Stability of Singular Points of a System of Differential Equations

PERIODICAL: Uch. zap. Udmurtsk. gos. ped. in-ta, 1958, vyp. 12, 62-64

ABSTRACT: The paper is devoted to the investigation of the behavior of stability of the singular points in the large for the dynamic system

$$(1) \quad \frac{dx}{dt} = a(x, y) \equiv a_1x + a_2y + a_{11}x^2 + a_{12}xy + a_{22}y^2,$$

$$\frac{dy}{dt} = b(x, y) \equiv b_1x + b_2y + b_{11}x^2 + b_{12}xy + b_{22}y^2,$$

where  $a_1, a_2, \dots, b_{22}$  are constants, where the following conditions are satisfied:

$$1) \quad \begin{aligned} &a_1a_2a_{12} - a_1^2a_{22} - a_{11}a_2^2 \neq 0, \\ &b_1b_2b_{12} - b_1^2b_{22} - b_{11}b_2^2 \neq 0. \end{aligned}$$

Card 1/2

67062

16(1)

SOV/44-59-9-9072

On the Question of the Stability of Singular Points of a System of Differential Equations

2) the non-decomposing curves of second order

$$a(x, y) = 0, \quad b(x, y) = 0$$

intersect in four different points.

V.V. Nemytskiy

Card 2/2

S/140/62/000/006/005/006  
E031/E435

AUTHOR: Khokhryakov, A.Ya.

TITLE: On the problem of the origin of limit cycles

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika.  
no.6, 1962, 145-147

TEXT: The equation

$$y' = \frac{P(x, y, \lambda)}{Q(x, y, \lambda)}$$

where  $\lambda$  is a parameter and  $P$  and  $Q$  have continuous derivatives in all variables to as high an order as necessary, is considered. The equation is transformed to normal coordinates. Following V.A.Chechik (UNN, v.10, no.1, 1955) and V.F.Tkachev (DAN SSSR, v.116, no.4, 1957) the increment  $\phi(n_0, \lambda)$  in the coordinate  $n$  at the point  $s(0, n_0)$  ( $s$  is arc length) on the integral line  $n = n(s, \lambda)$  of the equation  $(dn)/(ds) = F(s, n, \lambda)$  where

$$F = \frac{y''(s) - nx''(s) - fx'(s) - nfy''(s)}{x'(s) + fy'(s)}$$

for a full circuit round the periodic solution

Card 1/2  $x = x(s), y = y(s) \quad (0 \leq s \leq w) \quad (L)$

On the problem of the origin ...

S/140/62/000/006/005/006  
E031/E435

is considered. The solution (L) is said to give rise to  $m$  limit cycles if for any sufficiently small range of  $\lambda$  there are  $m$  limit cycles in an  $\epsilon$ -neighbourhood of (L). The conditions under which (L) gives rise to one or more limit cycles are embodied in the form of theorems. For example if  $\psi'_n(n, \lambda)$  evaluated at  $n = 0$ ,  $\lambda = \lambda_0$  is non-zero, (L) gives rise to a single limit cycle. When two limit cycles arise the conditions under which one is stable while the other is unstable and the conditions for arbitrary stability are given. ✓

ASSOCIATION: Udmurtskiy gosudarstvennyy pedagogicheskiy institut  
(Udmurt State Pedagogic Institute)

SUBMITTED: October 26, 1959

Card 2/2



AZBELEV, N.V.; KHOKHRYAKOV, A.Ya.; TSALYUK, Z.B. (Izhevsk)

Theorems on differential inequality for boundary value problems.

Mat. sbor. 59 (dop.):125-144 '62.

(MIRA 16:6)

(Boundary value problems)

KHOKHRYAKOV, A.Ya.

Periodic boundary value problem for a nonlinear differential  
equation of the third order. Vesti AN BSSR. Ser.fiz.-mat.  
nav. no.1:14-18 '65. (MIRA 19:1)

KHOKHRYAKOV, A.Ya. (Mogilev)

Periodic boundary value problem for a third-order differential  
equation. Mat. sbor. 63 no.4:639-645 Ap '64. (MIRA 17:6)

KHOKHRYAKOV, A.Ya. (Izhevsk)

Stability of the periodic solution to a system of three differential equations. Izv. vys. ucheb. zav.; mat. no.2:134-139 '63. (MIRA 16:3)  
(Differential equations)

ACCESSION NR: APL033687

8/0039/64/063/004/0639/0645

AUTHOR: Khokhryakov, A. Ye. (Mogilev)

TITLE: Periodic boundary value problem for a third order differential equation

SOURCE: Matematicheskii sbornik, v. 63, no. 4, 1964, 639-645

TOPIC TAGS: periodic boundary condition, third order differential equation, differential inequality, solution behavior, solution existence, solution uniqueness

ABSTRACT: The author studies the boundary value problem

$$L[y] \equiv y''' + a(x)y = f(x), \quad (1)$$

$$y(\alpha) - y(\beta) = 0, \quad y'(\alpha) - y'(\beta) = 0, \quad y''(\alpha) - y''(\beta) = 0, \quad (2)$$

where  $a(x)$ ,  $f(x)$  are continuous functions, and  $a(x) \not\equiv 0$  is a function of constant sign. The problem is that of uniqueness and existence of a solution of (1)-(2), and the nonlinear boundary problem (3)

Card 1/3

ACCESSION NR: AP4033687

$$N[y] \equiv y'' + f(x, y) = 0, \quad (3)$$

$$y(\alpha) - y(\beta) = 0, \quad y'(\alpha) - y'(\beta) = 0, \quad y''(\alpha) - y''(\beta) = 0,$$

with periodic boundary conditions. The author also investigates the behavior of the solutions and gives theorems on differential inequalities for the boundary value problems. The theorems for the linear problem concern existence of a unique solution for (1), algebraic sign of the solution, and comparison. For the non-linear problem, he gives theorems of comparison, existence-uniqueness under certain conditions, and finally, for a special form of the nonlinear problem

$$N_1[y] \equiv y'' + f_1(x, y)y - \varphi(x) = 0, \quad (4)$$

he gives an existence, uniqueness comparison theorem under certain conditions on its constituents. Orig. art. has: 12 formulas.

ASSOCIATION: none

Card 2/3

KHOKHRYAKOV, B.D., inzh.

Deformation of shaped wire in the production of locked-coil wire  
rope for hoisting. Stal' 20 no.9:862-864 S '60. (MIRA 13:9)

1. Khartsyzskiy staleprovolochno-kanatnyy zavod.  
(Wire rope)

KHOKHRYAKOV, B. D., Cand Tech Sci -- (USSR) "Research into the process of pulling shaped profiles of wire of small geometrical dimensions for cables in closed structures." Kiev, 1960. 19 pp with illustrations; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin Polytechnic Inst); 150 copies; price not given; (KL, 28-60, 161)



BRAYNIN, I.Ye.; BUDINSHTEYN, R.I., Prinimali uchastiye: TURSUNOV, A.V.;  
KHARCHENKO, V.A.; KHOKHRYAKOV, B.D.; SEMKIN, A.T.; FILATOV, N.G.;  
KAREVA, A.G.

Industrial experimentation in patenting rope wire in two baths.  
Izv.vys.ucheb.zav.; chern.met. 4 no.6:139-144 '61. (MIRA 14:6)

1. Donatskiy politekhnikheskiy institut.  
(Annealing of metals) (Wire drawing)

Z/056/63/020/002/003/007  
E073/E135

AUTHORS: Khokhryakov, B.D., Golubev, G.M. et al.

TITLE: Investigation of the vibrational drawing process

PERIODICAL: Hutnictví a strojírenství. Přehled technické a hospodářské literatury, v.20, no.2, 1963, 81, abstract HS 63-967. (Metallurg. i gornorud., no.3, 1962, 70-73)

TEXT: Vibrational drawing of wire, i.e. drawing of the wire through a vibrating die, was investigated in the Chartsizskiy zavod (Khartysk Works). The experiments have shown that wire produced in this way is superior to wire manufactured by current methods; in particular the uniformity of the cross-section is much greater. 4 figures, 1 table, 2 references.

[Abstracter's note: Complete translation.]

Card 1/1

GOLUBEV, T.M., doktor tekhn. nauk; DYADECHKO, P., inzh.;  
KHOKHRYAKOV, B.D. [deceased].

Influence of vibratory drawing on the quality of wire. Met.  
i gornorud. prom. no.6:56-59 N-D '62. (MIRA 17:8)

1. Kiyevskiy politekhnicheskii institut (for Golubev, Dyadechko).
2. Khartsyzskiy staleprovolochno-kanatnyy zavod (for Khokhryakov).

KHOKHRYAKOV, Boris Dmitriyevich; GOROFINCHENKO, V.M., red.izd-va;  
DOBUZHINSKAYA, L.V., tekhn. red.

[Locked-coil ropes for hoisting] Zakrytye pod'emnye kanaty.  
Moskva, Metallurgizdat, 1963. 58 p. (MIRA 16:5)  
(Wire rope)

*Khokhryakov, G.B.*

KUZNETSOV, Boris Vasil'yevich; SHPINAR, Ivan Ivanovich; SOLOV'YEV, N.I.,  
retsensent; ~~Khokhryakov, G.B.~~ retsensent; TATISHCHEV, V.I.,  
kandidat tekhnicheskikh nauk, redaktor; SHIMENNIKOVA, Z.V., redaktor  
izdatel'stva; KRASHAYA, A.K., tekhnicheskiy redaktor

[Parts of ship machinery] Detali sudovykh mashin. Pod red. V.I.  
Tatishcheva. Moskva, Izd-vo "Rechnoi transport," 1957. 471 p.  
(Marine engineering) (MIRA 10:9)

KUPRIYANOV, Dmitriy Fedorovich; METAL'NIKOV, Georgiy Fedorovich;  
SOKOLOV, Yu.P., inzh., retsenzent; KHOKHRYAKOV, G.B.,  
retsenzent; SMIRNOV, S.A., kand. tekhn. nauk, dots., nauchn.  
red.; ALEKSANDROVA, N.B., red. izd-va; VOLCHOK, K.M., tekhn.  
red.

[Fundamentals of technical mechanics] Osnovy tekhnicheskoi me-  
khaniki. Leningrad, Izd-vo "Rechnoi transport," 1962. 387 p.  
(MIRA 15:9)

(Mechanics, Analytic) (Mechanical engineering)  
(Strength of materials)

KHOKHRIYOV, M. V.

KHOKHRIYOV, M. V. "About the Species Name of a Fungus from the Genus *Cercospora* on  
*Helichorium intybus* L.," Bolezni Rastenii, Vestnik Otdela Fitopatologii Glavnogo  
Botanicheskogo Sada SSSR, vol. 19, no. 1-2, 1930, pp. 88-89. 464.3 Z6

So: Sira SI-19-53, 15 Dec 1953

1ST AND 2ND ORDERS		PERCENTS AND PROPERTIES INDEX		1ST AND 2ND ORDERS	
<p><i>Am</i></p> <p>Khokhryakoff (M. K.). Микозогризовое заболевание. [Mycological notes.]—Bull. Plant Protection, Leningrad, v. 1, pp. 125-129, 1932. [French summary.]</p> <p>In these notes the author points out that the binomial <i>Ascochyta trifolii</i> [for a clover leaf-spotting fungus: R.A.M., vi, p. 99; viii, p. 339] was used by Bondartsoff and Miho Troussova to name a fungus described by them in 1913, and by Siemasko in 1914 to rename <i>Phleospora trifolii</i> Cav. var. <i>veratensis</i> Masualongo. A careful examination of type material of these two species has convinced him of their identity, and the presence in their stylospores of two or three transverse septa leads him to transfer the organism, in agreement with the taxonomy suggested by Diedecke, into the genus <i>Stagonosporopsis</i>. The fungus should henceforth be known under the new combination <i>S. trifolii</i> (Cav.) Khokhr.</p>					
<p>ASU-51A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>GROUP 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>					



AM

КНОВИЦАКОВЕ (М. К.). Новые виды грибовых паразитов на новых  
любных растениях. [New species of parasitic fungi on the  
new fibro-yielding plants.] — в: Бюллетень и предисловие новых  
любных культур [Bulleted and preface of new cultivated  
textile plants]. pp. 61-67, 8 figs. Мозаубинет. ВАСХНИЛ  
[Inst. New Raw Material VASKhNIL], Moscow, 1933.

Russian descriptions and Latin diagnoses are given of 15 species  
of parasitic fungi considered to be new to science which have been  
collected on the territory of the Russian Soviet Republics on species  
of *Abutilon*, *kendir* fibro (*Apocynum venetum*), *ramie* (*Bombyx*  
*nitens*), *jute* (*Corchorus capsularis*), *Asclepias cornutus*, and *ambari*  
*nives* (*Hibiscus cannabinus*). In addition to those of which a pre-  
liminary description has already been cited (R.A.M., xii, p. 631)  
the following are included. *Stagonospora abutilonis* Choehr. on  
*Abutilon avicennae* leaves causes whitish spots with a narrow  
brown margin. The pycnidia are up to 130  $\mu$  in diameter, with  
a prominent ostiole, and contain 3- to 7-septate, straight or slightly  
curved, subhyaline (cinnamon in mass) pycnosporous, 10 to 31 by 4  
to 6  $\mu$ . *Septoria abutilonis* Choehr. on *A. divaricata* leaves forms  
cinnamon-grey to yellow spots up to 5 mm. in diameter, with an  
indistinct dark margin. The subglobose pycnidia are up to 140  $\mu$   
in diameter and contain cylindrical, slightly curved, indistinctly  
septate pycnosporous, narrowed at one end, and 45 to 77 by 3 to 4  $\mu$ .  
*Leptospheria apocyni* Pandara. on *Apocynum venetum* stems  
forms white spots up to 10 mm. long, with erumpent perithecia up



KHOKHRIAKOV, M. K.

"List of Fungi Occurring on New Cultivated Textile Plants," Trudy Instituta  
Novogo Lubianogo Syr'ia, no. 4, 1933, pp. 127-140. 73.9 M85

So: Sira - S1-90-53, 15 Dec. 1953

KHOKHRIAKOV, M. K.

KHOKHRIAKOV, M. K. "A Study of Crop Plant Diseases on Kolsky Peninsula,"  
Vestnik Zashchity Rastenii, no. 1-2, 1940, pp.245-250. 421 P942

So: SIRA SI-90-53, 15 Dec. 1953

KHOMHRIAKOV, M. F.

KHOMHRIAKOV, M. F. "Specialization of the Species of Rusts of Cereals in the Non-chernozem Zone of USSR," Vestnik Zashchity Rastenii, no. 1, 1941, pp. 116-125.  
421 P942

So: Sira Sl-19-53, 15 Dec 1953

KHOVHTIAKOV, M. Y.

KHOVHTIAKOV, M. Y. "A Little Known Disease of Winter-sown Cereals (Sclerotinia)," Zashchita Rastenii, no. 4, 1935, pp. 94-97. 421 P942

So: Sira SI-10-53, 15 Dec 1953

1. KHOKHRYAKOV, M. K.
2. USSR (600)
7. "Some Problems in the Systematism of Fungi", Trudy Vsesoyuzn. In-ta Zashchity Rasteniy (Works of the All-Union Institute of Plant Protection), No. 3, 1951, pp 222-234.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132, Unclassified.

1. KHOKHRYAKOV, M.K. (Editor)
2. USSR (600)
7. S.M. Kolkov, Bolezni i Povrezhdeniya Klubney Kartofelya (Diseases and Injuries of the Tuberous Potato), Under the Editorship of M.K. Khokhryakov, 64pp, Leningrad, 1951.
9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.



KHO.  
КОХРИЯКОВ, М. К.

Review of Applied Mycology  
June 1954

✓ 2  
НОХРИЯКОВ (М. К.). Специализация возбудителя инфекционного усыхания Лимонов (*Deuterophoma tracheiphila* Petri). (Specificity of the causal agent of infectious desiccation of Lemon trees (*Deuterophoma tracheiphila* Petri).) — Микробиология [Microbiology, Moscow], 21, 2, pp. 210-218, 1952.

Extensive inoculation tests at the Pan-Soviet Scientific Research Institute of Plant Protection, Leningrad, U.S.S.R., with *Deuterophoma tracheiphila* [see preceding abstract] showed that under local conditions the fungus is pathogenic and equally dangerous to sour orange and the hybrid *Citrus junos* × *C. grandis* [*C. maxima*], is intermediate in reaction to Kaho lemons, and less injurious to orange, Meyer lemons, *C. limonelloides* var. *otaitensis*, mandarin (*C. unshiu*), *C. deliciosa*, *C. leiocarpa* var. *praecox*, *Poncirus trifoliata*, and kumquat (*Fortunella margarita*). Various strains of *D. tracheiphila* were found to behave differently in pure culture, differences being apparent in the pigmentation of the mycelium and of the medium (particularly striking on glucose agar), ranging from pale pink and bright orange to dark or olive brown [*R.A.M.*, 29, p. 464], in its ability to form pycnidia and conidia of the *Phialophora* state, and sometimes in the size of the conidia.

KHOKHRYAKOV, M.K.--

"Morphobiological Reasons for the Systematics of Fungi of the Genus Helminthosporium (Sensus lato) on Grasses." Dr Biol Sci, All-Union Sci Res Inst of Plant Protection, Leningrad, 1953. (RZhBiol, No 4, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

KHOKHRYAKOV, M.K.

In memory of A.A. Iachevskii. Bot. zhur. 39 no.5:784-789 3-0 '54.  
(MLRA 7:11)

1. Vsesoyuznyy Institut zashchity rasteniy VASKHNIL (Leningrad)  
(Iachevskii, Artur Arturovich, 1863-1954)

*Khokhryakov, M.K.*

VORONKOVICH, I.V.; GORLENKO, Mikhail Vladimirovich, professor; ZHURAVLEV, I.I.;  
NOVOTEL'NOVA, N.S.; STEPANOV, K.N.; KHOKHRYAKOV, M.K.; GANZAYEVA, M.,  
tekhnicheskii redaktor

[Fungi, men's friends and enemies] Griby - druz'ia i vragi cheloveka.  
Pod red. M.V.Gorlenko. Moskva, Gos. izd-vo "Sovetskaya nauka,"  
1956. 187 p. (MLRA 10:8)  
(Fungi)

KHOKHRYAKOV, M. K.

KURSENKO, Lev Ivanovich, professor [dozent]; KURSENKO, N.A., professor;  
KHOKHRYAKOV, M.K., doktor biologicheskikh nauk; KURSENKO, M.Z.,  
dozent; SOKOLOV, D.V., dozent; ZHURAVLEV, I.I., kandidat biologi-  
cheskikh nauk; BREZHNEV, I.Ye., kandidat biologicheskikh nauk;  
TSSSHINSKAYA, N.I., redaktor; POPRYADUKHIN, tekhnicheskij redaktor

[Guide to the lower plants] Opredeletel' nizshikh rastenii; v plati  
tomakh. Moskva, Gos.izd-vo "Sovetskaya nauka." Vol.4. [Fungi] Griby.  
Pod obshchei red. L.I.Kursenova. 1956. 448 p. (MLRA 10:10)  
(Fungi)

DOBROZRKOVA, T.L.; LETOVA, M.F.; STEPANOV, K.M.; KHOKHRYAKOV, M.K.,  
doktor biologicheskikh nauk; AKHIEZHOVICH, M.B., redaktor;  
OSMOLOVSKIY, G.Ye., redaktor; CHUMAYEVA, Z.V., tekhnicheskii  
redaktor

[Catalog of plant diseases] Opredeletel' bolezhei rastenii. Pod red.  
M.K.Khokhriakova. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 661 p.  
(Plant diseases) (MLA 10:3)

**KHOKHRYAKOV, M.K.; VLADIMIRSKAYA, M.Ye.**

Activity of the mycological section of the All-Union Botanical Society during 1952-1955. Bot.zhur.41 no.1:143-151 Ja '56.

(MIRA 9:6)

1. Mikologicheskaya sektiya Vsesoyuznogo botanicheskogo obshchestva, Leningrad.

(Botanical societies) (Fungi)

KHOKHRYAKOV, M.K.

"Classification of yeasts." V.I. Kudriavtsev. Reviewed by M.K.  
Khokhriakov. Mikrobiologiya 25 no.1:128-131 Ja-F '56 (MLRA 9:5)

(YEAST) (KUDRIAVTSEV, V.I.)



VAKIN, A.T., prof.; GOLOVIN, P.N., prof., doktor biolog.nauk; DOBROZRKOVA, T.L., dotsent; ZHURAVLEV, I.I., doktor sel'skokhoz.nauk; POLYAKOV, I.M.; SOKOLOV, D.V., dotsent; STEPANOV, K.M., doktor biolog.nauk; TUPENEVICH, S.M., prof.; FEDORINCHIK, N.S., kand.sel'skokhoz.nauk; FEDOTOVA, T.I., doktor sel'skokhoz.nauk; KHOKHRYAKOV, M.K., doktor biolog.nauk; CHIGAREV, G.A., kand.sel'skokhoz.nauk; YATSENKO, I.P., prof. [deceased]; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[A phytopathologist's dictionary - reference book] Slovar'-spravochnik fitopatologa. Moskva, Gos.izd-vo sel'khoz.lit-ry. 1959. 414 p.

(MIRA 13:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Polyakov).  
(Plant diseases--Dictionaries)  
(Russian language--Dictionaries)

KHOKHRYAKOV, M.K., doktor biolog.nauk

Mycology and practical problems in phytopathology. Zachsh.  
rast. ot vred. i bol. 4 no.5:25-26 S-O '59. (MIRA 16:1)  
(Fungi, Phytopathogenic)

**KHOKHRYAKOV, M.K.**

In memory of Nikolai Aleksandrovich Naumov. Bot.zhur. 44  
no.12:1770-1778 D '59. (MIRA 13:4)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.  
(Naumov, Nikolai Aleksandrovich, 1888-1959)

KHOKHRYAKOV, Mikhail Kus'mich, prof.; REUTSKAYA, O.Ye., red.; BARANOVA,  
L.G., tekhn. red.

[Injurious and beneficial fungi] Vrednye i poleznye griby. Lenin-  
grad, Gos. izd-vo sel'khoz. lit-ry, zhurnalov i plakatov. 1961.  
102 p.

(Fungi)

(MIRA 14:8)

ANTONENKO, G.P., agronom; KHOKHRYAKOV, M.K., prof.; TERNOVSKIY, M.F., prof.

Peronospora (downy mildew) infection of tobacco in Czechoslovakia.  
Zashch. rast. ot vred. 1 bol. 6 no.5:53-54 My '61. (MIRA 15:6)  
(Czechoslovakia—Tobacco blue mold)

KHOKHRYAKOV, M.K.; CHUMAKOV, A.Ye.

Protection of pulse crops against main diseases. Zashch.  
rast. ot vred. i bol. 7 no.2:28-31 F '62. (MIRA 15:12)

1. Vsesoyuznyy institut zashchity rasteniy.  
(Legumes—Diseases and pests)

ZHIKHAREVA, Z.L.; KHOKHRYAKOV, M.K., prof.; D'YACHKOVSKAYA, R.V.

Coevals of the October Revolution. Zashch. rast. ot vred. 1 bol.  
7 no.11:1-4 N '62. (MIRA 16:7)

KHOKHRYAKOV, M.K., prof.

Classification of parasitic fungi. Zashch. rast. ot vred. i bol.  
8 no.1:46-47 Ja '63. (MIRA 16:5)

1. Vsesoyuznyy institut zashchity rasteniy.  
(Fungi, Phytopathogenic)



DUNIN, M.S., prof.; KHOKHRYAKOV, M.K., prof.; POPOVA, T.T., starshiy nauchnyy sotrudnik; NAUMOVA, N.A., kand.sel'skokhoz.nauk.

Outstanding scientists. Zashch. rast. ot vred. i bol. 8 no.12:4-7  
D '63. (MIRA 17:3)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. Timiryazeva (for Dunin). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut l'na (for Popova). 3. Vsesoyuznyy institut zashchity rasteniy (for Naumova).

KHOKHRYAKOV, M.K.

Civic activities of A.A. /Achevskii. Bet. zhur. 48 no.6:  
923-925 Je '63. (MIRA 17:1)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.

KHOKHRYAKOV, M.K., doktor biolog. nauk

At the 10th International Botanical Congress. Zashch. rast. ot  
vred. i bol. 9 no.12:52-53 '64. (MIRA 18:4)

1. Vsesoyuznyy institut zashchity rasteniy.

BONDARTSEV, A.S.; VLADIMIRSKAYA, M.Ye.; GOLOVIN, P.N.; TROPOVA, A.T.;  
KHOKHRYAKOV, M.K.; CHEREPANOVA, N.P.

Work of the mycological section of the All-Union Botanical  
Society during the period November 1958-December 1962. Bot.  
zhur. 49 no.2:311-318 F '64. (MIRA 17:6)

GOLOVIN, P.N.; BONDARTSEV, A.S.; KHOKHRYAKOV, M.K.; DOBROZRKOVA, T.L.; TROPOVA,  
A.T.; CHEREPANOVA, N.P.

Activities of the Mycological Section of the All-Union Botanical  
Society for the period January 1963-July 1964. Bot.zhur. 49 no.11:  
1688-1692 N '64. (MIRA 18:1)

1. Vsesoyuznoye botanicheskoye obshchestvo

KHOKHRYAKOV, M.K.; NOVOTEL'NOVA, N.S.; POTIAYCHUK, V.I.

New fungus diseases of cultivated plants in the U.S.S.R. Trudy  
VIZR no.17:216-247 '63. (MIRA 18 9)

KHOKHRYAKOV, M.K.

On the 100th birthday of Professor Artur Arturovich Iachevskii  
(1863-1932). Trudy VIZR no. 23:19-27 '64 (MIRA 19:2)

KHOKHRYAKOV, M.K.

Problem of species and the formation of species in fungi.  
Trudy VIZR no.23:159-166 '64. (MIRA 19:2)



LIST AND THE COLORS																										POLYESTER AND PROPERTIES INDEX																									
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<p><i>CH</i> <b>KHOKHRYAKOV, P. N.</b> <i>77</i></p> <p>Natural adsorbents for decolorizing mineral oils. S. A. VOZNESENSKI AND P. A. KHOKHRYAKOV. <i>Zhur. Prikladnoi Khim.</i> 2, 633-42(1929). Better Russian natural adsorbents are available than those now used by the home industry. Ignition to 300° increases their decolorizing efficiency, but higher temps. have the opposite effect. Pretreatment with HCl is beneficial. The decolorizing efficiencies of clays ignited to 300° are proportional to their Fe content.</p> <p>V. KALICHEVSEV</p>																																																			
<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			

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100 AND 4TH INDEX

1ST AND 2ND INDEX

PROCESSED AND PROPERTY INDEX

CA

Calculation of bubble towers for periodical operation. I  
S. N. Chayashnikov and P. A. Khochinsky. *Reference*  
Khozraschet SO, No. 1, 60-4(1964); d. C. A. 27, 6061.  
A. A. Borchlingk

27M 11A REFERENCE INFORMATION ELIMINATION

100M 11A 11B 11C 11D 11E 11F 11G 11H 11I 11J 11K 11L 11M 11N 11O 11P 11Q 11R 11S 11T 11U 11V 11W 11X 11Y 11Z 11AA 11AB 11AC 11AD 11AE 11AF 11AG 11AH 11AI 11AJ 11AK 11AL 11AM 11AN 11AO 11AP 11AQ 11AR 11AS 11AT 11AU 11AV 11AW 11AX 11AY 11AZ 11BA 11BB 11BC 11BD 11BE 11BF 11BG 11BH 11BI 11BJ 11BK 11BL 11BM 11BN 11BO 11BP 11BQ 11BR 11BS 11BT 11BU 11BV 11BW 11BX 11BY 11BZ 11CA 11CB 11CC 11CD 11CE 11CF 11CG 11CH 11CI 11CJ 11CK 11CL 11CM 11CN 11CO 11CP 11CQ 11CR 11CS 11CT 11CU 11CV 11CW 11CX 11CY 11CZ 11DA 11DB 11DC 11DD 11DE 11DF 11DG 11DH 11DI 11DJ 11DK 11DL 11DM 11DN 11DO 11DP 11DQ 11DR 11DS 11DT 11DU 11DV 11DW 11DX 11DY 11DZ 11EA 11EB 11EC 11ED 11EE 11EF 11EG 11EH 11EI 11EJ 11EK 11EL 11EM 11EN 11EO 11EP 11EQ 11ER 11ES 11ET 11EU 11EV 11EW 11EX 11EY 11EZ 11FA 11FB 11FC 11FD 11FE 11FF 11FG 11FH 11FI 11FJ 11FK 11FL 11FM 11FN 11FO 11FP 11FQ 11FR 11FS 11FT 11FU 11FV 11FW 11FX 11FY 11FZ 11GA 11GB 11GC 11GD 11GE 11GF 11GG 11GH 11GI 11GJ 11GK 11GL 11GM 11GN 11GO 11GP 11GQ 11GR 11GS 11GT 11GU 11GV 11GW 11GX 11GY 11GZ 11HA 11HB 11HC 11HD 11HE 11HF 11HG 11HH 11HI 11HJ 11HK 11HL 11HM 11HN 11HO 11HP 11HQ 11HR 11HS 11HT 11HU 11HV 11HW 11HX 11HY 11HZ 11IA 11IB 11IC 11ID 11IE 11IF 11IG 11IH 11II 11IJ 11IK 11IL 11IM 11IN 11IO 11IP 11IQ 11IR 11IS 11IT 11IU 11IV 11IW 11IX 11IY 11IZ 11JA 11JB 11JC 11JD 11JE 11JF 11JG 11JH 11JI 11JJ 11JK 11JL 11JM 11JN 11JO 11JP 11JQ 11JR 11JS 11JT 11JU 11JV 11JW 11JX 11JY 11JZ 11KA 11KB 11KC 11KD 11KE 11KF 11KG 11KH 11KI 11KJ 11KK 11KL 11KM 11KN 11KO 11KP 11KQ 11KR 11KS 11KT 11KU 11KV 11KW 11KX 11KY 11KZ 11LA 11LB 11LC 11LD 11LE 11LF 11LG 11LH 11LI 11LJ 11LK 11LM 11LN 11LO 11LP 11LQ 11LR 11LS 11LT 11LU 11LV 11LW 11LX 11LY 11LZ 11MA 11MB 11MC 11MD 11ME 11MF 11MG 11MH 11MI 11MJ 11MK 11ML 11MN 11MO 11MP 11MQ 11MR 11MS 11MT 11MU 11MV 11MW 11MX 11MY 11MZ 11NA 11NB 11NC 11ND 11NE 11NF 11NG 11NH 11NI 11NJ 11NK 11NL 11NM 11NO 11NP 11NQ 11NR 11NS 11NT 11NU 11NV 11NW 11NX 11NY 11NZ 11OA 11OB 11OC 11OD 11OE 11OF 11OG 11OH 11OI 11OJ 11OK 11OL 11OM 11ON 11OO 11OP 11OQ 11OR 11OS 11OT 11OU 11OV 11OW 11OX 11OY 11OZ 11PA 11PB 11PC 11PD 11PE 11PF 11PG 11PH 11PI 11PJ 11PK 11PL 11PM 11PN 11PO 11PP 11PQ 11PR 11PS 11PT 11PU 11PV 11PW 11PX 11PY 11PZ 11QA 11QB 11QC 11QD 11QE 11QF 11QG 11QH 11QI 11QJ 11QK 11QL 11QM 11QN 11QO 11QP 11QQ 11QR 11QS 11QT 11QU 11QV 11QW 11QX 11QY 11QZ 11RA 11RB 11RC 11RD 11RE 11RF 11RG 11RH 11RI 11RJ 11RK 11RL 11RM 11RN 11RO 11RP 11RQ 11RR 11RS 11RT 11RU 11RV 11RW 11RX 11RY 11RZ 11SA 11SB 11SC 11SD 11SE 11SF 11SG 11SH 11SI 11SJ 11SK 11SL 11SM 11SN 11SO 11SP 11SQ 11SR 11SS 11ST 11SU 11SV 11SW 11SX 11SY 11SZ 11TA 11TB 11TC 11TD 11TE 11TF 11TG 11TH 11TI 11TJ 11TK 11TL 11TM 11TN 11TO 11TP 11TQ 11TR 11TS 11TT 11TU 11TV 11TW 11TX 11TY 11TZ 11UA 11UB 11UC 11UD 11UE 11UF 11UG 11UH 11UI 11UJ 11UK 11UL 11UM 11UN 11UO 11UP 11UQ 11UR 11US 11UT 11UU 11UV 11UW 11UX 11UY 11UZ 11VA 11VB 11VC 11VD 11VE 11VF 11VG 11VH 11VI 11VJ 11VK 11VL 11VM 11VN 11VO 11VP 11VQ 11VR 11VS 11VT 11VU 11VV 11VW 11VX 11VY 11VZ 11WA 11WB 11WC 11WD 11WE 11WF 11WG 11WH 11WI 11WJ 11WK 11WL 11WM 11WN 11WO 11WP 11WQ 11WR 11WS 11WT 11WU 11WV 11WW 11WX 11WY 11WZ 11XA 11XB 11XC 11XD 11XE 11XF 11XG 11XH 11XI 11XJ 11XK 11XL 11XM 11XN 11XO 11XP 11XQ 11XR 11XS 11XT 11XU 11XV 11XW 11XX 11XY 11XZ 11YA 11YB 11YC 11YD 11YE 11YF 11YG 11YH 11YI 11YJ 11YK 11YL 11YM 11YN 11YO 11YP 11YQ 11YR 11YS 11YT 11YU 11YV 11YW 11YX 11YY 11YZ 11ZA 11ZB 11ZC 11ZD 11ZE 11ZF 11ZG 11ZH 11ZI 11ZJ 11ZK 11ZL 11ZM 11ZN 11ZO 11ZP 11ZQ 11ZR 11ZS 11ZT 11ZU 11ZV 11ZW 11ZX 11ZY 11ZZ

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PROCESSES AND PROPERTIES INDEX

Calculation of bubble tower for potential operating  
A. M. Cherkashin and P. A. Kharin, Moscow  
Kharin No. 1, 20-07000; A. A. Kharin

ASME METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										180 AND 6TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p>ca</p>										<p>First commercial-scale operations in refining oils by means of selective solvents. P. A. Khabbaryanov, P. F. Reshetnyuk and I. P. Getmanov. <i>Nefteyane Khimicheskoe</i> 26, No. 8, 60-8 (1938).—In the batch treatment of lubricating oils with nitrobenzene, the exptl.-lab. results were confirmed, although the process must be carried out continuously with countercurrent flow to obtain the best results. A. A. Bozhilinsk</p>									
<p>ASR-5LA METALLURGICAL LITERATURE CLASSIFICATION</p>										<p>FROM SOURCE</p>									
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22

Calculation of the extraction section of the selective solvent equipment for petroleum oils... L. A. Khukhrya-hov and D. N. Burlov. *Neftyanoe Stroy.* 1936, No. 11, 109. A review, covering mixing towers with fillers and mixers with agitators. A. A. Bechtinov

ASAC-SLA DETAILING LITERATURE CLASSIFICATION

22

CA

Improving the laboratory investigations of the selective  
 refining of lubricating oils. P. A. Khokhlovskiy. Av-  
 iation Age, 1930, No. 1, 45 ff. Criticism of the technique  
 adopted in Russia and various recommendations for its  
 improvement are made. A. A. Boshlugh

PROCESSING AND PROPERTIES OF

ASAC 116 METALLURGICAL LITERATURE CLASSIFICATION

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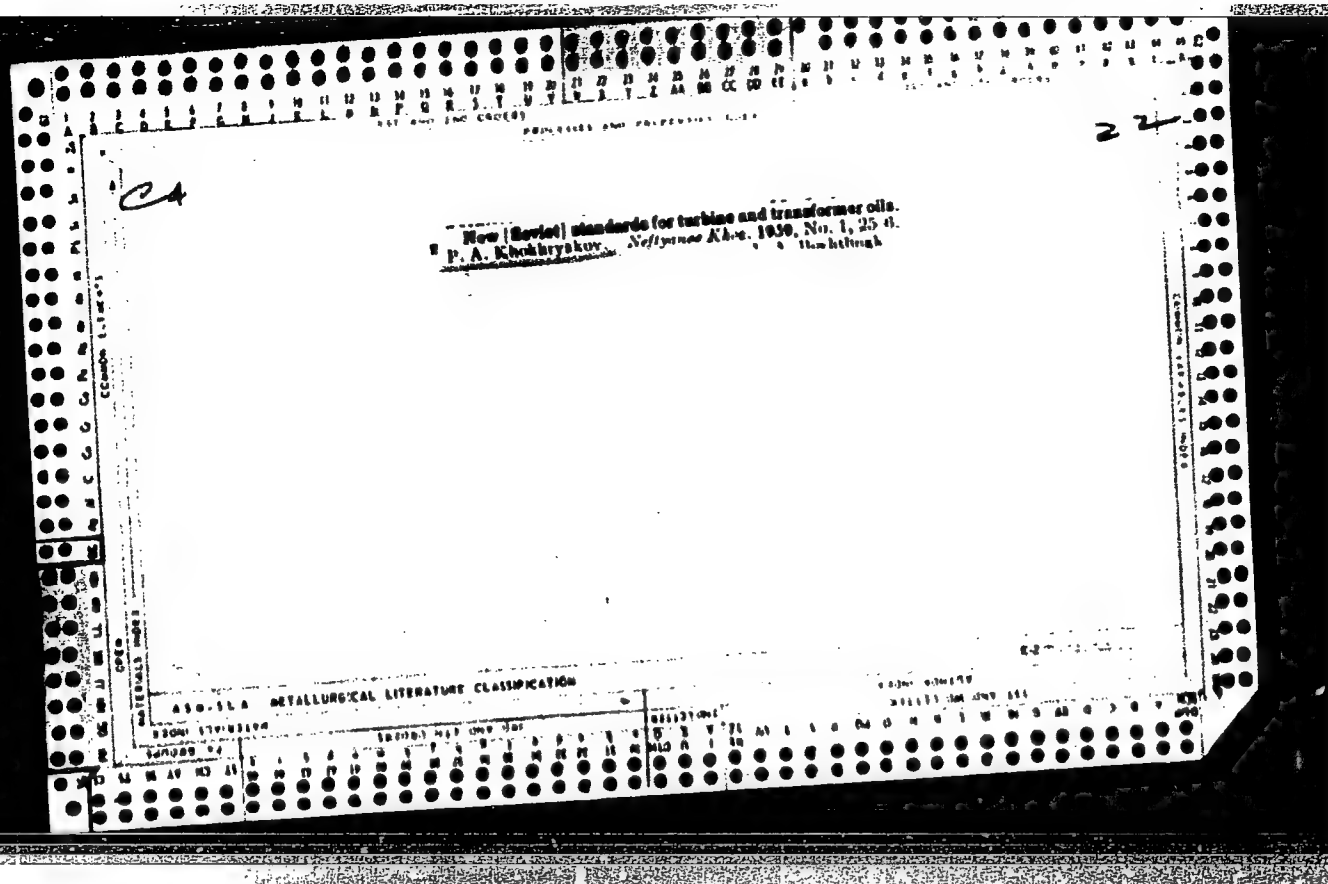
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KHOKHRYAKOV, P. A.

Reducing the cost of building petroleum refining plants, USSR,  
by A. I. Zel'kovich and P. A. Khokhryakov. New York, USJPRS; 1950.  
116 p. diagrs., tables (JPRS:3471)

Translated from the original Russian: Put i snizheniya stoimosti  
sooruzheniya neftepererabatyvayushchikh zavodov. Moscow, 1959.

KHOKHRYAKOV, P.

AID P - 209

Subject : USSR/Engineering  
Card : 1/1  
Author : Khokhryakov, P.  
Title : Formula of Counter Flow Extraction  
Periodical : Neft. khoz., v. 32, #3, 41, Mr 1954  
Abstract : Three methods of extraction from a liquid by a liquid are outlined (single and multi-stage flow and counter flow) and formulas for reducing concentration by each method are presented.  
Institution : None  
Submitted : No date

KHOKHRYAKOV, P.A.; ALFIMOVA, Ye.A.

Increasing the efficiency of extraction columns. Khim.i tekhn.  
topl.i masel no.5:48-53 My '57. (MLRA 10:7)

1. Ministerstvo neftyanoy promyshlennosti.  
(Distillation apparatus)

*Khokhryakov, P.A.*

**AUTHORS:** Savinskiy, I. S. and Khokhryakov, P.A. 65-1-5/14

**TITLE:** Isopentane in Crude Oil and Accompanying Gases as Raw Material for the Manufacture of Synthetic Rubber. (Izopentan v nefti i poputnykh gazakh - syr'ye dlya proizvodstva kauchuka).

**PERIODICAL:** Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.1, pp.23-24. (USSR).

**ABSTRACT:** Isopentane, obtained from crude oil and accompanying gases, makes it possible to increase considerably the sources of raw materials for the synthetic rubber industry and to reduce considerably imports from abroad. Isopentane can be obtained from products produced during catalytic cracking. These products contain up to 3% weight of isopentane and up to 4 - 4.5% of amylene. 20,000 t/year of isopentane or 30,000 t/year of isopentane-amylen fractions can be obtained from catalytic cracking processes. An alternative source of isopentane are the accompanying gases which contain up to 3% pentane fractions, the pentane fraction itself comprises up to 1/3rd of isopentane. The gas works of the Tatar and Bashkir Republics will produce in 1965 about 12 t of pentane fraction for every 1,000,000 m<sup>3</sup> of processed gas, from which up to 4 t of isopentane will be obtained.

Card 1/2

65-1-5/14  
Isopentane in Crude Oil and Accompanying Gases as Raw Material for the Manufacture of Synthetic Rubber.

This can be increased by isopentane obtained by isomerisation of n-pentane. The pentane constitutes 1% - 1.5% of crude petroleum. The isomerisation of n-pentane has been investigated by LenNII. High yields of isomers were obtained. The first plant for isomerisation processes is to be erected in one of the Eastern Regions of the country, and will have an annual output of 60,000 t of isopentane.

**ASSOCIATION:** Fiziko-khimicheskiy institut im. Karpova (Institute of Physical Chemistry imeni Karpov)

**AVAILABLE:** Library of Congress.

Card 2/2

SOV/65-58-12-15/18

The Manufacture and Uses of Benzene

siderably. This can be achieved by using new catalytic and pyrolytic processes, demethylation of higher aromatics and the hydrogenation of coal. There are 2 Tables.

Card 2/2

ZEL'KOVICH, Abram Iosifovich; KHOKHRYAKOV, Pavel Aleksandrovich;  
KLEYMENOVA, K.F., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Ways to lower the construction cost of petroleum refineries]  
Puti snizheniya stoimosti sooruzheniya neftepererabatyvayu-  
shehikh zavodov. Moskva, Gos.nauchno-tekhn.isd-vo neft. i  
gorno-toplivnoi lit-ry, 1959. 105 p. (MIRA 12:7)  
(Petroleum refineries)

BORISOVICH, Grigoriy Fedorovich; TRUTNEV, Nikolay Aleksandrovich;  
KHOKHRYAKOV, Pavel Aleksandrovich; KLEYMENOVA, K.F., vedushchiy  
red.; GABINA, L.V., tekhn.red.

[Hydrocarbon gases as raw materials in petroleum chemistry]  
Uglevodorodnye gazy - syr'evye resursy neftekhimii. Moskva,  
Gos.nauchno-tekhn.isd-vo نفت. i gorno-toplivnoi lit-ry, 1960.  
75 p. (MIRA 14:1)

(Petroleum)

(Hydrocarbons)

15.4100

77552  
SOV/65-60-2-12/15

AUTHORS: Andrianov, V. M., Khokhryakov, P. A.

TITLE: Concerning the Selection of the Process Flow Diagram for Petroleum Refineries

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, Nr 2, pp 54-57 (USSR)

ABSTRACT: The final selection of the process flow diagram for petroleum refineries should be based on the requirements in petroleum products in a given region. In this respect three possible process flow diagrams are suggested. (1) When the stress is on a bright stock, the process flow diagram should include, besides atmospheric-vacuum distillation, rectification of distillates and treatment of gases, contact coking of all petroleum asphalts, catalytic cracking of coking distillates and vacuum gas oil, and thermal cracking of the heavy catalytic gas oil. The yield of bright stock in this case is over 70%, and that of fuel oil is 3.5%. (2) This

Card 1/2



Concerning the Selection of the Process  
Flow Diagram for Petroleum Refineries

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SOV/65-60-2-12/15

process flow diagram is oriented to a lesser yield of bright stock. Instead of coking, it employs viscosity breaking of the petroleum asphalt. The yield of the bright stock is 55-60%, and that of fuel oil is 26%. (3) This flow diagram is employed where it is necessary to increase the yield of fuel oil to 35%. It is done by use of the vacuum gas oil (50% of it). The yield of the bright stock decreases to 50% in this case. In general, with the increase of fuel oil yield from 3 to 35%, the yield of gasoline decreases from 27 to 18%, and that of diesel fuel, from 33 to 23%. Process flow diagrams 1 and 2 are suggested as the best for the Soviet economy; diagram 3 can be used in a special case. There are 2 tables.

ASSOCIATION: NIITEKhim (NIITEKhim)

Card 2/2

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722210005-2

Economic indices of the production of diesel fuel. Khim.i tekhn.  
topl.i masel 5 no.8:46-51 Ag '60. (MIRA 13:8)

1. Nauchno-issledovatel'skiy institut tekhniko-ekonomicheskikh  
issledovaniy Goskomiteta Soveta Ministrov SSSR po khimii.  
(Diesel fuels)

ANDRIANOV, V.M.; KHOKHRYAKOV, P.A.

Economic aspects of the manufacture of aromatic hydrocarbons. Khim.  
i tekhn. topl. i masel 6 no. 5:44-48 My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut tekhniko-ekonomicheskikh  
issledovaniy Goskomiteta Soveta Ministrov SSSR po khimii.  
(Hydrocarbons) (Petroleum industry)

BORISOVICH, G.F.; ~~KHOKHRYAKOV, P.A.~~; ROZINA, R.A.

Development of the production of ethylene, propylene, and  
acetylene. Khim. prom. no.8:561-566 Ag '63. (MIRA 16:12)

KHOKHRYAKOV, P.A., kand. tekhn. nauk; SHPUNT, M.I., inzh.

Designing systems for automatic quality control of petroleum  
products. Mekh. i avtom. proizvod. 19 no. 10:16-18 0 '65.  
(MIRA 18:12)

L 27811-66 EWT(d)/EWT(m)/EWP(g)/T/EWP(v)/EWP(k)/ETC(m)-6/EWP(1) IJP(c) WW/JW/WE

ACC NR: AP6005794 (A) SOURCE CODE: UR/0118/65/000/010/0016/0018

AUTHOR: Khokhryakov, P. A. (Candidate of technical sciences); Shpunt, M. I. (Engineer)

ORG: none

TITLE: Circuits for automatic control of quality of petroleum products

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 10, 1965, 16-18

TOPIC TAGS: automatic control, automatic control system, automatic control theory, petroleum product, petroleum engineering

ABSTRACT: By using the results of running analyses of kerosine and diesel fuel produced by an atmospheric-and-vacuum tube still as a basis, an automatic control system for the still was developed. Two kerosine quality factors — flash point and 96% Engler boiling temperature — were selected for the automatic control. A correlation coefficient (0.168) and a correlation ratio (0.243) were calculated from the data of 476 analyses; the correlation proved to be linear and weak. For the diesel fuel, the 96% Engler boiling temperature was set. A principal flow diagram shows the general automatic features of the still designed on the basis of the above data. Orig. art. has: 2 figures and 1 table.

SUB CODE: 13, 09 / SUBM DATE: none

Card 1/1

UDC: 003.63.621.3.078:62.634.2

KOLDOVKIN, A.Ya., inzh.; Prinimali uchastiye: KHOKHRYAKOV, P.A., dotsent;  
BONDARENKO, B.I., dotsent

Choice of a phenol-reclamation flowsheet in selective refining of  
oils. Nauch.zap.Ukrniiproekta no.4:132-140 '61. (MIRA 15:1)  
(Phenols) (Petroleum--Refining)

~~KHOKHRYAKOV, V., kand. tekhn. nauk; SHAGANSKIY, R., inzh.; LEBEDEV, A., inzh.;~~  
~~ORICHENKO, I.; FEDIN, L.; TELYATNIKOV, Ya., akkumulyatorshchik~~

Readers' letters. Avt. transp. 37 no.12:43-44 D '59.

(MIRA 13:3)

1. Zhigulevskoye passazhirskoye avtokhozyaystvo (for Telyatnikov)  
(Motor vehicles)

**KHOKHRYAKOV, V., kand.tekhn.nauk**

Selecting the type of a dumper for excavating machinery. Avt.transp. 39  
no.2:10-12. V '61. (MIRA 14:3)

1. Sverdlovskiy gornyy institut imeni V. V. Vakhrusheva.  
(Excavating machinery)



KHOKHRYAKOV, V.I.

Chem 6  
(3)

Reaction of ammonia with limonene monoxide. G. V. Pigulevskii and V. I. Khokhryakov (A. A. Zhdanov State

Univ., Leningrad), *Doklady Akad. Nauk S.S.S.R.* 87, 779-81 (1962).—Heating 8 ml. of limonene 1,2-monoxide ( $b_p$  84°,  $d_4$  0.9290,  $[\alpha]_D^{25}$  64.98°) with 25 ml. 25%  $NH_4OH$  in sealed tube 3 hrs. at 125° gave 70%  $C_{10}H_{18}ON$ , the hydroxyamino deriv., being a viscous liquid,  $b_p$  135°,  $d_4$  1.0071,  $n_D^{25}$  1.50285,  $[\alpha]_D^{25}$  16.03°. The product has a primary  $NH_2$  group and OH as shown by Zerevitinov detn. of active H, but whose  $NH_2$  group is rather unreactive since 115° was necessary for reaction with  $MeMgX$ . Apparently the product is 2-amino- $\Delta^{10}$ -p-menthen-1-ol. The product crystallizes from  $H_2O$  as pentahydrate, needles, which lose  $H_2O$  in vacuo or on heating above 84°; the hydrate absorbs  $CO_2$  from the air, forming  $C_{10}H_{18}(OH)(NH_2) \cdot 0.5H_2CO_3$ , m. 95-7°, which loses  $CO_2$  on boiling in  $H_2O$ . Treatment of aq. soln. of the amino alc. with 10%  $H_2SO_4$  yields  $C_{10}H_{18}(OH)(NH_2) \cdot 0.5H_2SO_4$ , m. 231-3° (from  $EtOH-Et_2O$ ).  
G. M. Kosolapoff

C.A. V-48  
Jan 10, 1954  
Organic Chemistry

7-28-54

KHOKHRYAKOV, V.K.

Efficient layouts for the general plan of open pit mines. Gor.zhur.  
no.4:16-20 Ap '64. (MIRA 17:4)

1. Ural'skiy gosudarstvennyy institut po proyektirovaniyu  
razrabotki rudnykh mestorozhdeniy, Sverdlovsk.

KHOKHRYAKOV, V.S., dots; VOLOTKOVSKIY, S.A., prof; NOVOZHILOV, M.G., prof,

"Truck and tractor haulage in open pit mines" by M.V. Vasil'ev.

Review by V.S. Khokhriakov, Gor.shur. no.11:80 N '48.

(MIRA 11:11)

1. Sverdlovskiy gornyy institut (for Khokhryakov, Volotkovskiy)
2. Dnepropetrovskiy gornyy institut (for Novozhilov)  
(Mine haulage) (Strip mining) (Vasil'ev, M.V.)

**KHOKHRYAKOV, V.S., gornyy inzhener.**

Calculating the elements of the hauling cycle and productivity  
of a dump truck in open-pit mining. Ger.shur.no.12:42-46 D '55.  
(Dump trucks)(Mine haulage) (MIRA 9:4)